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### 1.00 INTRODUCTION

- 1.01 The Salt Lake City Mosquito Abatement District (SLCMAD) and the Mosquito Abatement District-Davis (MAD-D), here after referred to as the Districts are seeking qualified contractors to provide aerial pesticide application services for a three year period beginning April 1, 2017 and ending on December 31, 2020 (with a potential 2 year extension). For many years the SLCMAD and MAD-D have held a joint contract for aerial application services. This provides maximum service for the Districts and cost effectiveness for the Districts and the Contactor. The Districts also jointly own a hangar at the Ogden Regional Airport where aerial spray operation will be conducted.
- 1.02 Prospective Contractors may make inquiries concerning this Request for Qualifications (RFQ) to the contacts below. All communication related to this RFQ shall be directed to the contacts listed below. The Contractor should understand that verbal comments may be subject to misinterpretation and are in no way binding on the Contractor or the Districts. If questions arise concerning any aspect of this RFQ, the Contractor should request clarification in writing. A copy of this request, as well as the written response shall be provided to all Contractors receiving requests for qualifications on the project.

### **Mosquito Abatement District-Davis**

Gary Hatch, Manager 85 North 600 West Kaysville, UT 84037

Telephone: (801)544-3736; Email: ghatch@davismosquito.org

### Salt Lake City Mosquito Abatement District

Ary Faraji, Manager 2020 North Redwood Road Salt lake Districts, UT 84116

Phone: 801-35-9221; E-mail: ary@slcmad.org

#### 1.03 PROPOSED SCHEDULE TO AWARD CONTRACT

Any contract awarded shall provide that the contractor at all times will act as an independent contractor and not as an employee of the Districts

RFQ released	27 June 2016
RFQ pre submittal conference call (optional)	7 July 2016
RFQ submission deadline	18 July 2016
Selection or additional interviews	20 July 2016
Award of contract	19 August 2016
Final completion	31 December 2016

### 1.04 SUBMITTAL FORMAT INFORMATION

- A. The proposing firm shall submit three (3) copies of its qualifications for the project to the Mosquito Abatement District-Davis at the postal address shown in Section 1.02. Each copy provided shall be three hole punched, loose leaf bound, with tab dividers with the firm name and the RFQ name (2017-2020 Aerial Mosquito Control Pesticide Application Services) on the cover.
- B. The submittal shall be limited to a maximum of twenty-five (25) pages (8-1/2" x 11") single sided, not smaller than 11 pt. type.
- C. The cover letter, table of contents, and tab pages do not count toward the page limit of 25.
- D. Project cut sheets, including photos, are included in the page limits, submittals exceeding the page limits may be considered non-responsive.
- E. The following information should be on the outside of the submittal.

Name of Firm

RFQ: 2017-2020 Aerial Mosquito Control Pesticide Application Services

Due Date: 12 noon MST, July 18, 2016

F. Late submittals will not be accepted. It is the responsibility of the Proposer to ensure the submittal arrives to the MAD-D prior to the date and time stated in the RFO.

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- G. The Districts are not liable for any cost incurred by companies in preparing or submitting a response to this RFQ.
- H. All materials submitted regarding this RFQ shall become the property of the Districts and will only be returned to the Participants at the discretion of the Districts. Disqualification of a Proposer does not eliminate this right.
- I. The Districts reserves the right to modify or delete the RFQ request. Companies responding to this RFQ do so at their own risk and option.
- J. The Districts reserve the right to reject any or all submittals, waive informalities and minor irregularities in the submittals received if deemed in the best interest of the Districts.
- K. To be considered for selection, the submittal must bear the signature of the owner or his/ her authorized representative.
- L. Submittals cannot be withdrawn for a period of ninety (90) days after the date of the submittal opening.
- M. After the Qualified Contractors are selected, the Districts may request interviews with contractor and relevant pilots, and staff.
- N. Qualified Contractors will be asked to submit pricing for the aerial mosquito control applications

### 1.05 GENERAL INFORMATION FOR SUBMITTAL

- A. Insurance. The Contractor shall maintain the following insurance:
  - 1. Commercial Bodily Injury, Property Damage, along with Chemical/Pollution Liability Insurance. The Contractor shall maintain during the life of the Contract coverage to protect the Contractor from claims of damage which may arise from work under the Contract, whether such operations be by his/herself, or by anyone directly or indirectly employed by them. Contractor shall provide General Liability insurance with a minimum of \$1,000,000 per occurrence and \$2,000,000 general aggregate. Contractor shall provide Chemical/Pollution

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Liability insurance with a minimum of \$1,000,000 per occurrence and \$2,000,000 general aggregate. The contractor will add the Districts additionally insured with the District's named individually. They will also name Ogden City individually as additionally insured. Certificates identifying the individual entities as additionally insured will be provided to each entity on a yearly basis

Certificates of insurance from the insurance provider or a letter stating the availability of coverage <u>must</u> be included within the submittal, and are subject to review and approval by the Districts.

- 2. Workers Compensation and Employers Liability Insurance as required by the State of Utah, unless a waiver of coverage is allowed and acquired pursuant to Utah Law. This requirement includes contractors who are doing business as an individual and/or as a sole proprietor as well as corporations, limited liability companies, joint ventures and partnerships. In the event any work is subcontracted, Provider shall require its subcontractor(s) similarly to provide workers compensation insurance for all of the latter's employees as required by the State of Utah, unless a waiver of coverage is allowed and acquired pursuant to Utah law.
- 3. Business Automobile Liability. Contractor shall maintain, during the entire term of the contract, automobile liability insurance in an amount not less than one million dollars (\$1,000,000) per occurrence.
- B. The successful Contractor will be required to sign a professional service agreement with the Districts effective through December 31, 2020. The agreement will include this request for qualifications and the Contractors submittal.
- C. Final selection of a Contractor and issuance of a work contract for any phase of work will require authorization by the individual Districts Board of Trustees. In the event the District's cannot come to a unanimous decision on which contractor is best suited to receive the contract then the Districts have the right to refuse all bids and place another request for qualifications.
- E. It is the Contractors sole responsibility to ensure that its submittal is received by the Districts by the Submittal Due Date. Qualifications received after the Submittal Due Date will be rejected and returned to the Contractor unopened.

### **1.06** General Requirements for Contractors:

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- A. All of the contractor's employees and subcontractor's employees must be certified as eligible to work in the state of Utah.
- B. Must be able to comply with both the National Pollutant Discharge Elimination System (NPDES) requirements under the Federal Clean Water Act and the Utah Pollutant Discharge Elimination System (UPDES) under Utah's Department of Environmental Quality.
- C. Pilots proposed to be part of this contract must have a minimum of:
  - 1,000 hours as a pilot in command of fixed wing aircraft and,
  - 100 hours mosquito adulticiding in a similar aircraft proposed for this agreement and,
  - 100 hours mosquito larviciding/pupiciding in a similar aircraft proposed for this agreement.
- D. Pilots who will work on this contract must have appropriate pesticide applicator certification in aerial spraying for public health pesticides from the Utah Department of Agriculture and Food.
- E. The Contractor is responsible for all aspects of loading the aircraft, including but not limited to equipment, manpower and containment.
- F. The Districts have a forklift that can be used by certified forklift operators with preapproval.
- G. The Districts have exclusive use of a hangar at the Ogden Hinckley Airport owned by the Davis-Salt Lake Aerial Spray Authority (D-SLASA). This is available for storage of aircraft, with restriction, throughout the mosquito season.
- H. Loading of the aircraft is to be done at the D-SLASA hangar at the Ogden Hinckley Airport.
- I. All liquids must be loaded over an approved containment system. If loaded inside the D-SLASA hangar this is acceptable.
- J. The Districts will provide all pesticide spray materials. All spray materials will be stored at the D-SLASA hangar at the Ogden Hinckley Airport.
- K. Aircraft proposed for this contract must use Global Positioning System (GPS) equipment for guiding and recording spray missions. Contractors must use differential GPS equipment with sub-meter accuracy. The software must have the capability to generate detailed shape files. This equipment must be able to

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accept mapping information supplied by the Districts and be able to return data that is compatible with the Districts GPS/GIS formats. Contractor must also be able to accept flight information from hard copy maps or aerial photographs, email of electronic shape files, and mobile data storage devices, i.e. flash card memory. Additionally, the aircraft used for all spray missions should be equipped with a meteorological measuring system (Aircraft-Integrated Meteorological Measurement System 20 or equivalent) capable of recording real-time meteorological conditions such as wind direction, wind speed, humidity, temperature, etc. Contractors must supply the Districts with post-spray reports which include insecticide data, geographic, and meteorological data following each application. Some spray blocks will take aircraft over populated areas in both of the Districts. The use of a twin-engine aircraft and acquisition of an FAA congested area plan will be a must.

- L. Weather permitting, all areas submitted by the District's must be completed within 24 hours of submittal.
- M. Contractor must be capable of adulticiding between sunset and midnight, with up to 15,000 acres (90 gallons of Dibrom) on a regular basis.
- N. Contractor must be capable of larviciding on a daily basis. The Districts will attempt to inspect most known aerial application areas in the early part of each week. The Contractor must be capable of larviciding, with a granular material, up to 1,600 acres in a single day. Individual shape files may be as small as 10 acres or as large as 600 acres.
- O. Calibration documentation for adulticiding and larviciding must be submitted before each mosquito season.

### 2.00 PROJECT INFORMATION

#### **2.01 BUDGET**

The Districts have a Year End Fiscal Year (ending December 31). Each District budgets according to past history of spraying. Urban Emergency spraying is budgeted separately.

#### 2.02 PROJECT BACKGROUND

The Districts mosquito control program utilize an Integrated Mosquito Management Program (IMM) approach. This method uses various forms of control and practices the

most environmentally friendly approaches of control available that will achieve the desired outcomes. IMM programs use pesticides to control larval and adult mosquito populations, but only after a systematic monitoring of pest populations indicate a need. Aerial applications are one component of the overall program. Historically, the Mosquito Abatement District-Davis has averaged over last five years 7,050 acres of larvicides and 200,766 aces for adulticides. Salt City Mosquito Abatement District 3 year average is 6,500 acres of larvicide and 212,000 acres adulticides. These average acre treatment numbers are for reference use only and do not guarantee the contractor said acres or obligate the Districts in any way to the historical figures provided.

On November 1, 2011, Districts were required to comply with UPDES permitting for discharge of pesticides. This permit will be issued by the State of Utah, Department of Environmental Quality, in the Water Quality Division. The Districts have provided Notice of Intent (NOI) to apply pesticides under the General Permit for Major Pesticide Discharges and have been issued Permit Authorization # UTG170033. The permit expires September 30, 2016. The selected Contractor will also be required to file for, and receive coverage under their own UPDES permit. Compliance with UPDES requirements for maintenance and calibration of equipment, reporting and record retention procedures shall be required of the Contractor. The Contractor shall also be required to provide required documentation to fulfill the Districts permit obligations.

### 2.03 PROJECT OBJECTIVES

The objective of this Request for Qualifications is to:

- A. Establish the qualifications of interested aerial pesticide application services.
- B. Determine the suitability of those qualifications as applied to the needs of the Districts.
- C. Select an aerial pesticide application service to provide needed services under contract between April 1, 2017 and December 31, 2020.

### 3.0 EVALUATION PROCESS AND SELECTION CRITERIA

- A. The following criteria and weights shall be utilized as a guideline to evaluate the Qualifications. Individual criteria have been assigned varying weights.

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(c)	Projected workload	10%
(d)	Pilot familiarity with flight conditions in the Salt Lake Valley	10%
(e)	Safety record	15%

- B. A selection committee consisting of three members shall be established and will evaluate the RFQ's using the criteria outlined above.
- C. The final selection will be based on the Districts sole discretion and determination of the RFQ that best meets the needs of the Districts
- D. After the successful Contractor is selected, the Districts will negotiate a professional services agreement, scope of services, and contract price base on but not limited to the contents of the Contractor's submittal.
- E. All RFQ and materials will become the property of the Districts. All costs incurred in the preparation of the RFQ process shall be borne by the proposing Contractor.
- F. The Districts reserve the right to waive any irregularities and information in the RFQ or fees, and to reject any and all RFQ at any time, or to re-advertise RFQ at any time prior to Districts Board of Trustees approval of a professional services agreement.
- G. Specific on-site visits are not required for submittals, but will be permitted as requested. Any questions or inquiries shall be answered as generically as possible, without preference to any Contractor or representative. A list of all questions and responses shall be kept and available for inspection if requested in writing. All inquiries and questions should be referred to Gary Hatch, Mosquito Abatement District-Davis Manager (801) 544-3736, fax (801) 544-2864 or email ghatch@davismosquito.org

### 4.0 SCOPE OF WORK

### A. General Conditions:

1. **SAFETY**: The Contractor is to abide by all instructions on all the insecticide labels. Contractor is to provide leak proof insecticide aircraft tank(s). The aircraft spraying system must be constructed so that all insecticide can be drained from the system. If, by action or inaction of the Contractor (including employees, agent and subcontractors) or his/her equipment, excessive insecticide is dispensed or is lost through spillage, leaks, etc., the cost of said materials and clean-up will be deducted from the payment voucher. The Contractor will be responsible for all cost incurred for clean-up of materials. Clean up must conform to all Federal, State and local standards. The Districts will perform (or

contract for) all cleanup and will submit a statement of cost to the Contractor, which the Contractor hereby agrees to pay.

- 2. GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT: Contractor is required to insure precise application of pesticides. The Contractor must demonstrate, within their submittal to the Districts, their knowledge of the geographic areas scheduled to have pesticides applied or the ability to accurately dispense pesticides using GPS/GIS guidance systems.
- 3. Formulations: *Bacillus thuringensis israelensis* (Bti) formulation will be determined by the Districts. Granular applications are usually at 7 lbs. per acre. If liquid applications are made they will be mixed in an appropriate solution with or without water and will be applied at rates ranging from 16 oz. to 3 gallons per acre. Dibrom (Naled) will be applied at the ultra-low volume (ULV) rate of <sup>3</sup>/<sub>4</sub> oz. per acre. Individual applications will range from a minimum of 1,000 acres to a maximum of 21,000 acres. Permethrin products will be typically applied at ULV rates of 3 oz. per acre. The schedule of treatments, sizes, and location of these areas is to be determined by the Districts.
- 4. Regulation: All aerial applicators and aircraft are required to be registered with any and all agencies required to operate in Utah. The Contractor's aircraft and pilot(s) must meet the minimum requirements of all Districts, county, state, and federal regulations pertaining to aircraft and/or pilots applying pesticides by air in congested areas and obtain all necessary permits, waivers and certificates covering such aerial applications. All aerial applicators must have the appropriate commercial pest control applicators license for the state of Utah.
- 5. All pesticides will be supplied by the Districts.
- 6. The Contractor shall provide all personnel, equipment, and supplies necessary for completion of these professional services.

### B. Larval Control:

1. Aerial Larviciding /Pupiciding:

Aerial larviciding and pupiciding is the application of a product by airplane or helicopter into water to control mosquitoes in the larval or pupal stage, respectively.

Granular Applications:

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Product to be applied may have a carrier of sand or corncob. Rates may vary between 5 and 15 pounds per acre, but are generally 7 pounds per acre in our area.

### Liquid Applications:

Liquid applications have not been made in the past 5 years, but if the contractor has this capability it should be included in the proposal.

The Districts products of choice include Bti, *Bacillus sphaericus* (Bsp), and surface films. Altosid (methoprene) and Natular (spinosad) could also be used in future applications. Application rates vary by product and individual District, but are generally between one pint and three gallons per acre of finished product.

- 2. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. The Contractor must provide suitable pumps for the use of bulk loading and unloading the aircraft. Pesticide containers normally used include 30 gallon non-returnable drums, 30 gallon returnable drums, 55 gallon non-returnable drums, 55 gallon returnable drums and/-or 260 gallon returnable totes, 1,200 lb. supersacks and 40 lb. bags.
- 3. Aircraft must be able to apply liquid formulations of Bti, and water at 16 to 30 oz. per acre.
- 4. For application of liquid Bti solution, Bsp solutions and surface films a Beecomist, Micronaire, or CP Aerial nozzle system must be used. Nozzles must produce droplet sizes within the range of 175 225 microns.

### C. Rural Adult Control:

- 1. Aerial application of liquid ULV Dibrom for the control of adult mosquitoes in rural areas. Dibrom will be applied at a rate of ¾ oz. per acre to 1,000 or more acres with individual applications up to 15,000 acres. It is important to note that some spray blocks will take aircraft over populated areas in both of the Districts. The use of a twin-engine aircraft and acquisition of an FAA congested area plan will be a must.
- 2. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. The Contractor must provide suitable pump for the use of bulk loading and unloading the aircraft.

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Pesticide containers normally used include 30 gallon non-returnable drums, 30 gallon returnable drums, 55 gallon non-returnable drums, 55 gallon returnable drums, and/ or 260 gallon returnable totes.

- 3. For application of Dibrom: a Beecomist or Micronaire nozzle unit or system must be used. Nozzles must produce appropriate size droplets to meet the Districts and label specifications. The contractor is required to provide all necessary corrosion resistant equipment for the transfer of Dibrom from chemical containers to the aircraft.
- D. Public Health Emergency Application (Urban)
  - 1. The aerial application of a liquid ULV pyrethroid or Dibrom for control of adult mosquitoes. Dibrom to be applied at ¾ oz. per acre. Pyrethroid based insecticide to be applied at the ULV rate of 3 oz. per acre on an area of 5,000-50,000 acres within the Districts limits **only** in the event of a public health emergency. The use of a twin-engine aircraft and acquisition of an FAA congested area plan will be a must.
  - 2. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. The Contractor must provide suitable pump for the use of bulk loading and unloading the aircraft. Pesticide containers normally used include 30 gallon non-returnable drums, 30 gallon returnable drums, 55 gallon non-returnable drums, 55 gallon returnable drums and/ or 260 gallon returnable totes.
  - 3. For application of pyrethroid base products a Beecomist or Micronaire nozzle unit or system must be used. Nozzles must produce droplet size to meet the Districts and label specifications.
- E. Time is the essence of the Contract. The Contractor must be at the area and prepared to spray either the entire area or a part of the area on a maximum of 72 hours notice. All aircraft, equipment and personnel requested must be assembled at or near Ogden Regional Airport, ready to begin treatment on the day set for reporting. Adult control applications generally begin at sunset. The Districts will be responsible for determining suitability of weather conditions for applications of insecticides and reserves the prerogative of cancellation of scheduled applications. In any case, the periods of time for initiation and termination of flights on any given day will be determined by the Districts. If it is determined by the Districts, that the Contractor has not performed satisfactorily in any phase of the application, the Contractor may be required to re-treat a portion or all of the area considered inadequately treated at their own

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expense, without recourse. In the event that a re-spray is deemed necessary the Contractor is also responsible for furnishing the chemicals.

- F. Contractor shall supply thumbnail reports of pesticide application details for each spray block within 48 hours of completion. Electronic or digital reporting is acceptable and preferred. Reports to include:
  - Name of applicator
  - The date and time of application
  - Location of pesticide application and GPS map of spray block
  - Total acreage treated
  - The name of the pesticide applied; EPA registration number
  - Total amount of pesticide applied; total amount of carrier
  - Rate of application
  - Temperature, at no greater than 10 minute intervals
  - Wind direction, and speeds at no greater than 10 minute

#### intervals

- Humidity conditions, at no greater than 10 minute intervals
- Identification number of aircraft used for application
- G. Contractor shall supply complete reports and maintain on file to satisfy Annual Reporting Requirements under the UPDES General Permit for Major Pesticide Discharges (PGP). Reports to include:
  - **1.** Applicator's name, address, telephone number, and email address (if available):
  - **2.** Contact person name, title, telephone number, and email address (if available) if different from number 1;
  - **3.** Identification of all waters or other treatment areas, including size, either by name (owner name and address) or location, to which pesticides were discharged under any of the pesticide use patterns listed.
  - **4.** Total amount of each pesticide product applied for the reporting year by the EPA registration number(s) and by application method (e.g. aerially fixed wing);
  - **5.** If applicable, copies of all adverse incident reports associated with these treatment areas;

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**6.** A description of any corrective action(s), including spill responses, resulting from pesticide application activities and the rationale for each action(s).

Contractor will have Annual Reports available for inspection to comply with UPDES Permit by December 30<sup>th</sup>, each year.

### 5.0 DELIVERABLES

- A. At a minimum, the Contractor will provide three (3) paper copies of the submittal, each copy three hole punched, with a maximum of twenty -five (25) pages, 11 pt. type or larger, of the following:
  - 1. Letter of Interest
  - 2. A complete background history of the company/firm.
  - 3. Summary of related experience
  - 4. Three letters of reference within the last 12 months
  - 5. Insurance requirements as required in 1.05 A
  - 6. Detailed proposal which should include the following elements:
    - a. The background qualifications and certifications of all the pilots and staff who will be responsible for the applications.
    - b. The current and projected work load of the company and of the technicians who will be responsible for the operations over the term of the contract ending December 31, 2020.
- B) Please be aware that any Agreement resulting from this bid does not give the Contractor exclusive rights to all aerial adulticiding/larviciding/pupiciding spraying done for the Districts. The Districts may have additional contracts with other Contractors for: acreages above those listed above or in the resulting Agreement, congested air spaces that require twin engine aircraft and experimental aerial applications.
- C) All responses must include only the personnel, equipment and methods that are being proposed to be used with this contract, except when answering questions about safety record.
- D) After award of contract switching of aircraft, pilots, equipment or methods of application without the prior written consent of the Districts shall be prohibited. Such switching without the prior written consent of the Districts shall be grounds for termination of the contract in the discretion of the Districts.

### **CONTRACTOR INFORMATION**

CONTRACTORS COMPANY NAME:	
ADDRESS:	
PRINT NAME:	
POSITION WITH COMPANY:	
SIGNATURE:	
PHONE #	
FAX #:	
Email: ————	
DATE:	

### **AIRCRAFT**

Model	Year	Dedicated to this contract Yes / No	Adulticiding and / or Larviciding	Spray System(s)

Any additional information on aircraft and/or spray system(s):

### **AERIAL SPRAY CHARACTERISTICS:**

### Adulticiding

Aircraft	ULV Spray System	Height above ground	Air speed	Swath Width (ft.)

### Larviciding

Aircraft	Granular / Liquid Spray System	Height above ground	Air speed	Swath Width (ft.)

Any additional information on aerial spray characteristics:

CALIBRATION: Provide brief description of calibration method to be used:
Adulticiding
Droplet size:
Flow rate:
Swath width:
Larviciding
Flow rate:
Evenness of granular distribution:
Swath width:

### **Pilot Information**

PILOT(S) and Experience

Name	Dedicated	Mosquito Control Hours using GPS			
	to contract - or back up	Larviciding	Adulticiding	Location/District/State	

### **GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT**

GPS equipment on: Larvicide aircraft		
Adulticide aircraft		

**Describe type of GPS equipment** 

Describe the process for shape file submission, input into aircraft, and flight shape file returned to the Districts

### **WEATHER MONITORING**

AIMS Unit on aircraft
Larvicide aircraft

Adulticide Aircraft

Describe Source and Method of Weather Monitoring: (e.g., wind direction and speed, air temperature at ground and spray altitude)

### **INSURANCE**

Describe or attach documentation of liability insurance coverage (include coverage limits, carrier name, address, phone # and contact person).
Describe or attach documentation of workers compensation insurance coverage (include coverage limits, carrier name, address, phone # and contact person).

### **OGDEN HINCKLEY AIRPORT:**

Attach written documentation on permission to use the Ogden Hinckley airport to land, load and take off for aerial pesticide application events. A letter from the airport manager would be appropriate.

Jon Greiner
Airport Manager
Ogden Hinckley Airport
3909 Airport Rd
Ogden UT 84405
801-629-8251 office
801-336-7459 cell
jongreiner@ogdencity.com

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### **REFERENCES**

List References for Past Aerial Pesticide Applications in Mosquito Control (if none list references for similar application experience.):

Name of Company/District:	
Contact Person:	
Phone #:	_ Fax #:
Email:	
Address:	
Name of Company/District:	
Contact Person:	
Phone #:	_ Fax #:
Email:	
Address:	
Contact Person:	
Phone #:	_ Fax #:
Email:	
Address:	

### **SAFETY RECORD**

List any claims filed against the Contractor, Contractors insurance, contractor's subcontractors or any of pilots resulting from aerial spray operations:
List any citations from or reportable events to the Federal Aviation Administration or State Department of Agriculture(s) in the past 10 years: